69 HONDA

INSTALLATION INSTRUCTIONS

Accessory	Application	Publications No.
AIR CONDITIONER	1999 ACCORD (DX) 4-DOOR	AII 20021
		Issue Date SEP 1998

What's changed for '99

There are no changes for the '99 A/C kits. The A/C kits and instructions are carry-over for '99.

TOOLS AND SUPPLIES REQUIRED

Open-end wrench set

90-Degree hook-shaped tool

Screwdrivers

Socket wrench set

1/2″ Drive breaker bar

Torque wrench

Belt Tension Gauge: T/N 07JGG-001010A

Refrigerant oil

Fender covers, floor mats, and seat covers

HFC-134a refrigerant recovery/recycling/charging station

Eye protection (face shield, safety goggles, etc.)

Electronic leak detector

NOTICE

- **Use only HFC-134a in this system;** do not use CFC 12 (Freon); do not install parts designed for use in a CFC system.
- **Use a charging station.** A/C charging stations and refrigerant recovery/recycling/charging stations minimize the release of CFCs and HFCs to the atmosphere. Use them for all A/C charging and service work according to their manufacturers' instructions.
- **Do not overcharge.** This system requires only the amount of HFC-134a refrigerant shown below. If you overcharge the system, the engine and the A/C will malfunction.

600 to 650 grams
.60 to .65 kilograms
1.3 to 1.4 pounds
21.2 to 22.9 ounces

INSTALLATION

Before You Begin:

- **Write down the customer's radio station presets;** the radio memory will be erased when you disconnect the battery.
- **Make sure you install the right part.** Use the illustrations on pages 2 and 3 as a guide to check the parts before you install them.
- **Don't remove plugs and caps from fittings until the parts are ready to connect.** This will keep out moisture and dirt which could cause wear and damage.
- **Before you connect any line or hose, check and lube its O-ring.** Make sure the O-ring is there (inside the fitting), put a few drops of refrigerant oil on it and on the threads, then connect the fitting.
- You may use any type of refrigerant oil to lubricate O-rings and fittings.
- If you add or replace refrigerant oil in the system, use *only* this PAG oil: ND-8, P/N 38899-PR7-A01.
- **Route and secure the lines and hoses properly;** maintain clearance between them and surrounding parts.
- **Use two wrenches to tighten or loosen fittings;** hold one fitting in place while you tighten the other one against it.
- **Before you connect each connector, check its terminals.** Make sure they aren't bent or out of place.

NOTICE **Don't overtighten; you could damage the fittings.** Before you tighten a fitting, check the torque listed for it. If leaks are caused by faulty O-rings, overtightening the fitting won't help.

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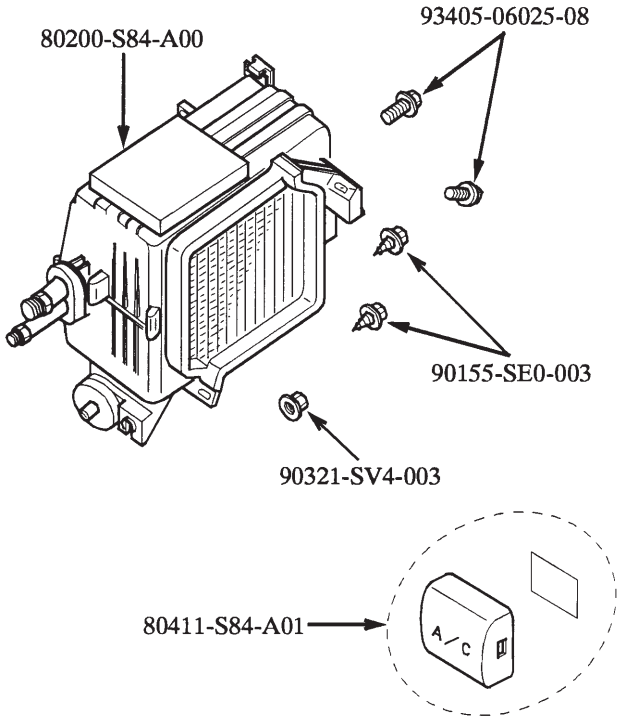
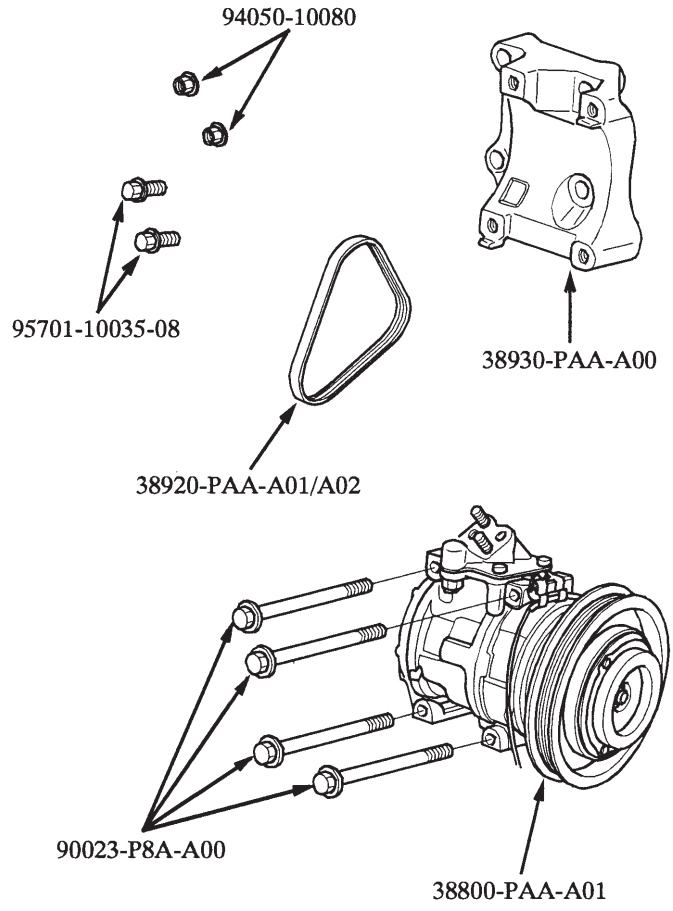
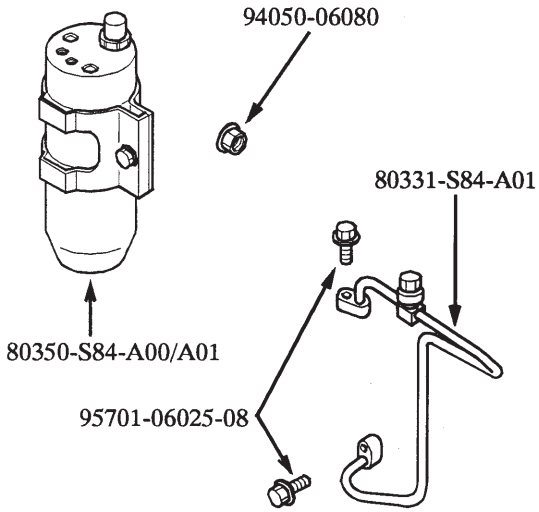
Group A

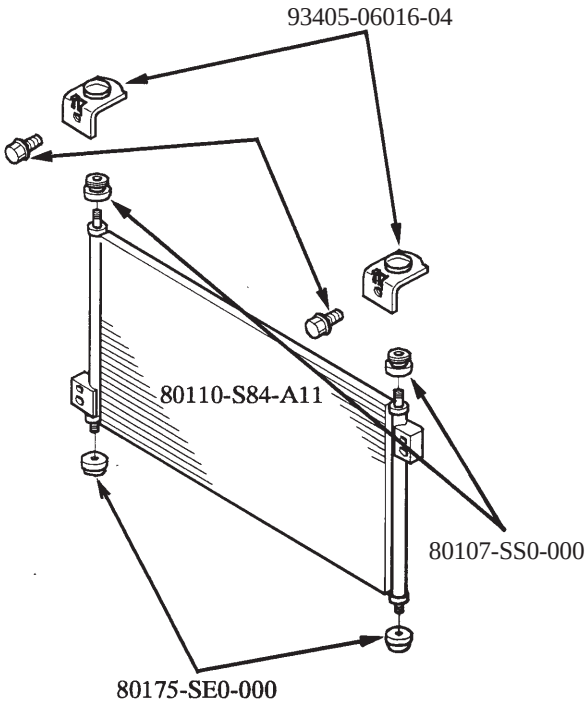


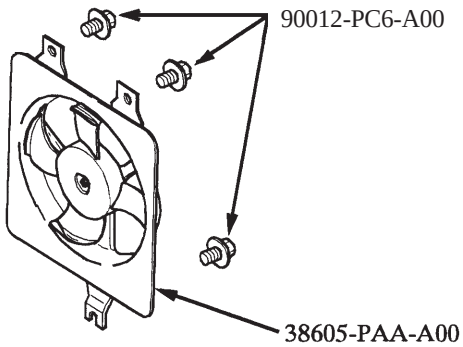
Group B



Group C







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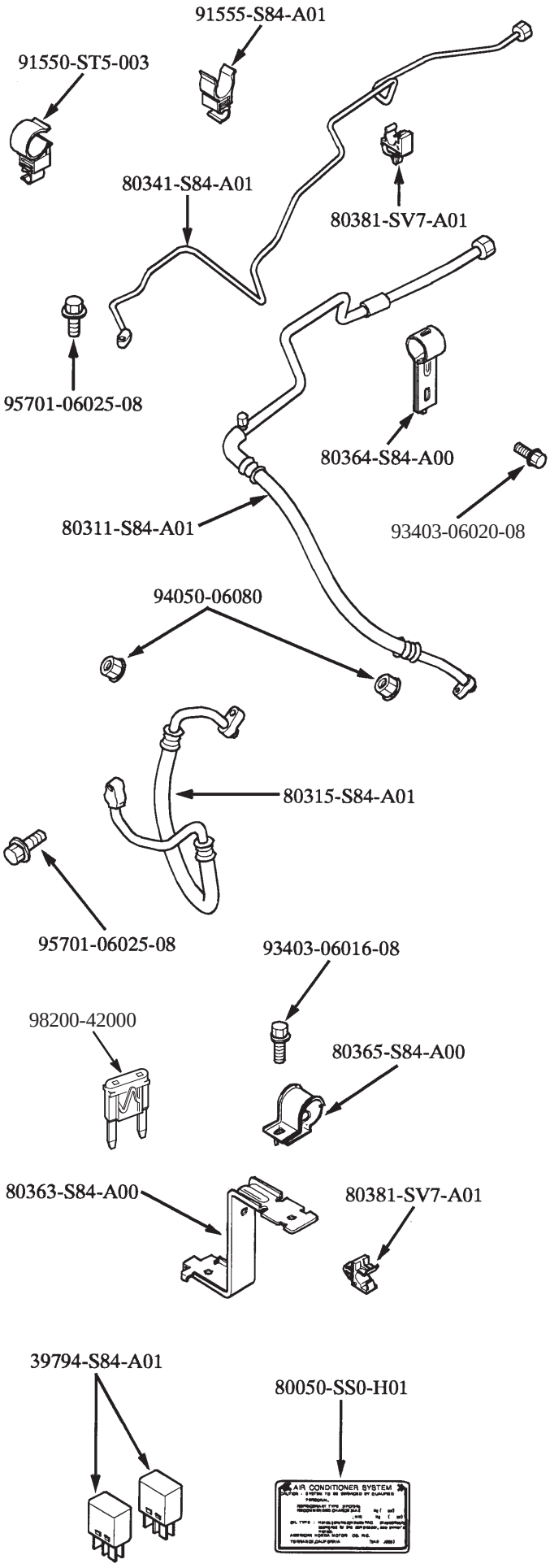

GROUP	PART NAME	PART NUMBER	QUANTITY 80000-S04-A10
A	Evaporator	80200-S84-A00	1
	A/C Switch button	80411-S84-A01	1
	Self-tapping screws (6 x 20 mm)	90155-SE0-003	2
	Washer-nut (6 mm)	90321-SV4-003	1
	Washer-bolts (6 x 25 mm)	93405-06025-08	2
B	Compressor	38800-PAA-A01	1
	Compressor belt	38920-PAA-A01/A02	1
	Compressor bracket	38930-PAA-A00	1
	Flange bolts (8 x 85 mm)	90023-P8A-A00	4
	Flange nuts (10 mm)	94050-10080	2
	Flange bolts (10 x 35 mm)	95701-10035-08	2
C	Condenser fan	38605-PAA-A00	1
	Power relays	39794-S84-A01	2
	A/C label	80050-SS0-H01	1
	Condenser upper mounts	80107-SS0-000	2
	Condenser	80110-S84-A11	1
	Condenser upper mount brackets	80111-S84-A00	2
	Condenser lower mounts	80175-SE0-000	2
	Suction hose	80311-S84-A01	1
	Discharge hose	80315-S84-A01	1
	Condenser line	80331-S84-A01	1
	Receiver line	80341-S84-A01	1
	Receiver-dryer	80350-S84-A00/A10	1
	Suction hose bracket	80363-S84-A00	1
	Suction line clamp (A)	80364-S84-A00	1
	Suction line clamp	80365-S84-A00	1
	Receiver line clamps	80381-SV7-A01	2
	Special washer-bolts (6 x 12 mm)	90012-PC6-A00	3
	Harness return clip	91550-ST5-003	1
	A/C line clamp	91555-S84-A01	1
	Washer-bolts (6 x 16 mm)	93405-06016-04	2
	Washer-bolt (6 x 16 mm)	93403-06016-08	1
	Washer-bolts (6 x 20 mm)	93403-06020-08	1
	Flange nuts (6 mm)	94050-06080	3
	Flange bolts (6 x 25 mm)	95701-06025-08	4
	20 Amp fuse	98200-42000	1

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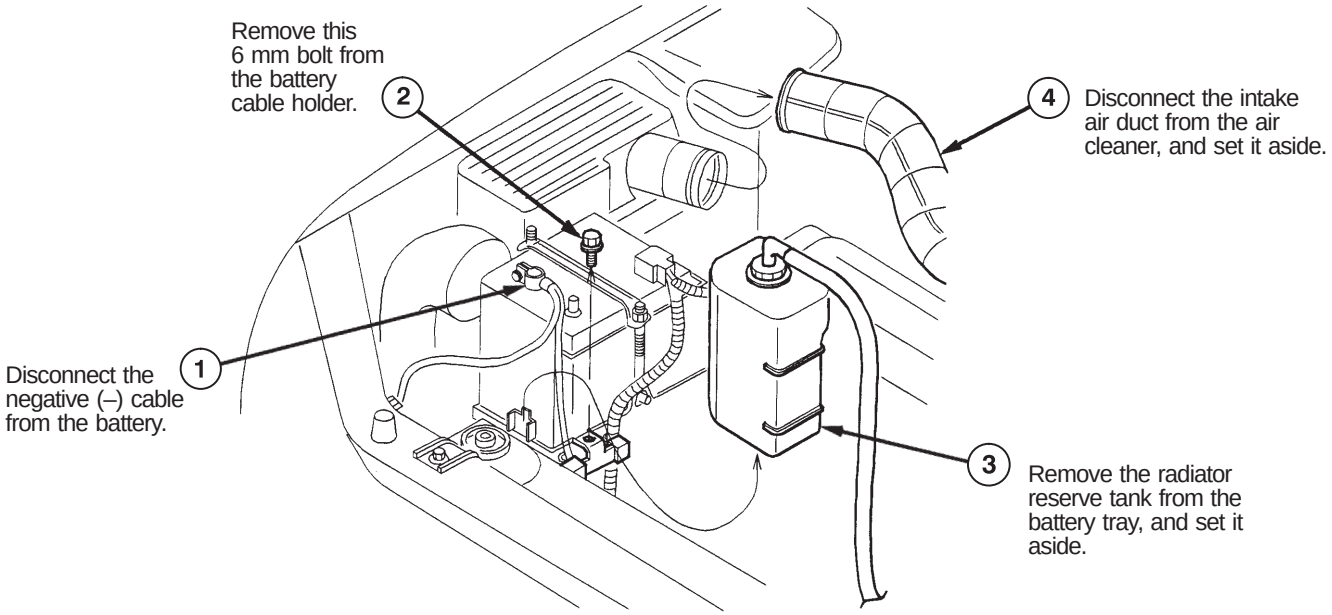
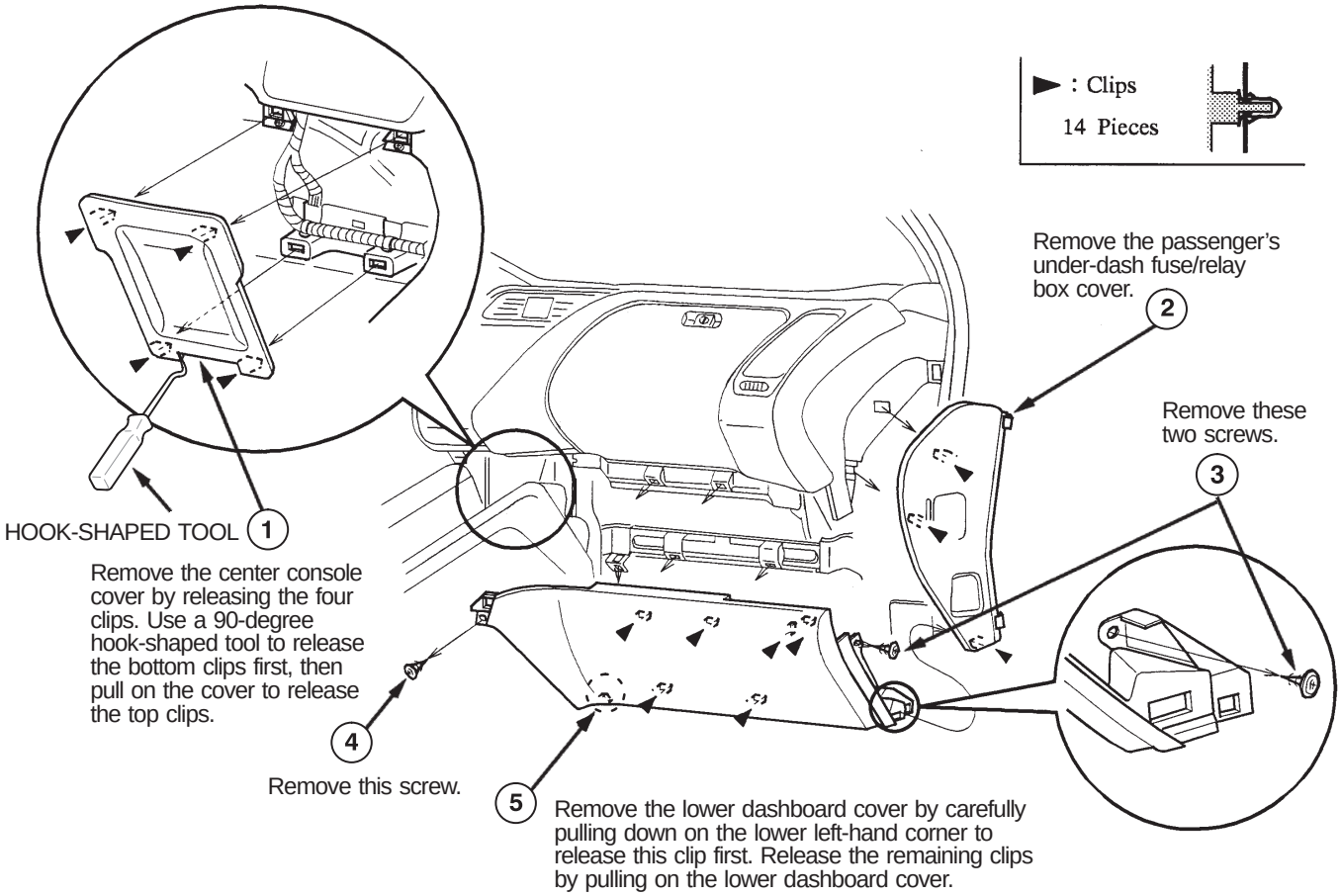
1. Remove the battery cable, the radiator reserve tank, and the intake air duct.


Remove this 6 mm bolt from the battery cable holder.
2
4
Disconnect the intake air duct from the air cleaner, and set it aside.
Disconnect the negative (–) cable from the battery.
1
3
Remove the radiator reserve tank from the battery tray, and set it aside.

Prepare to install the evaporator.

2. Remove the center console cover and dashboard lower cover.


: Clips
14 Pieces
Remove the passenger's under-dash fuse/relay box cover.
2
Remove these two screws.
3
HOOK-SHAPED TOOL
1
Remove the center console cover by releasing the four clips. Use a 90-degree hook-shaped tool to release the bottom clips first, then pull on the cover to release the top clips.
4
Remove this screw.
5
Remove the lower dashboard cover by carefully pulling down on the lower left-hand corner to release this clip first. Release the remaining clips by pulling on the lower dashboard cover.

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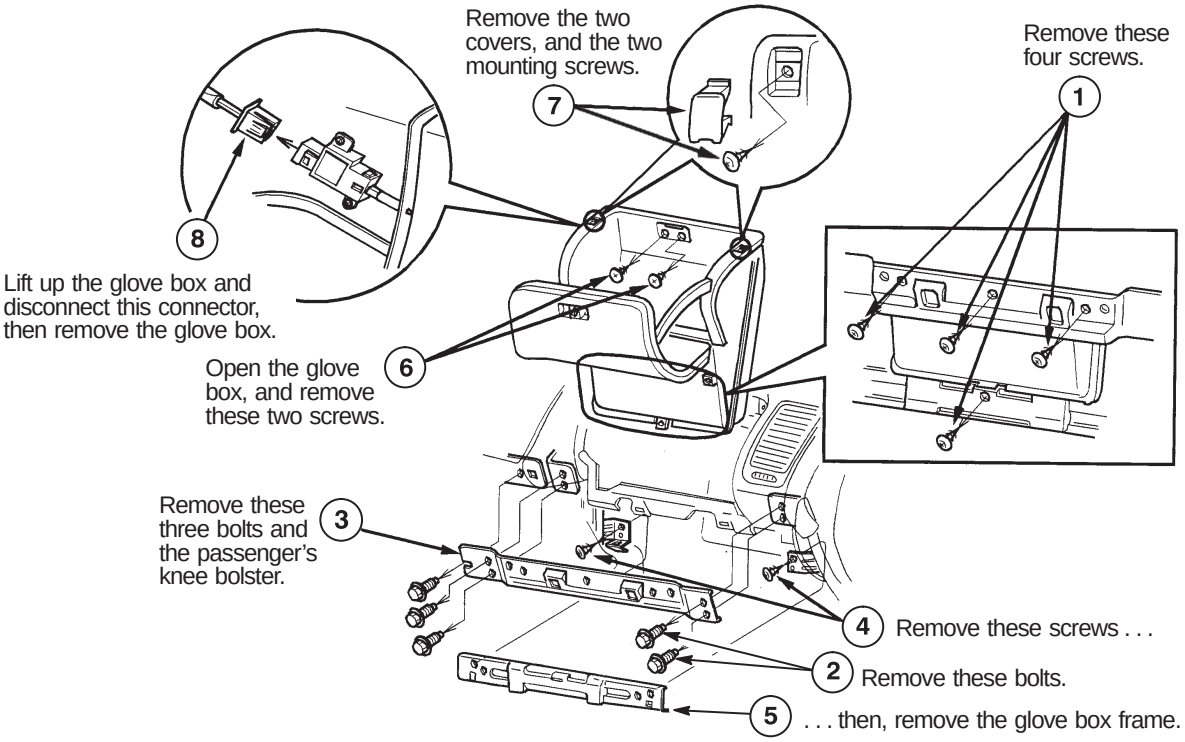
3. Remove the glove box and frames.


Remove the two covers, and the two mounting screws.
7
Remove these four screws.
1
8
Lift up the glove box and disconnect this connector, then remove the glove box.
Open the glove box, and remove these two screws.
6
Remove these three bolts and the passenger's knee bolster.
3
4
Remove these screws . . .
2
Remove these bolts.
5
. . . then, remove the glove box frame.

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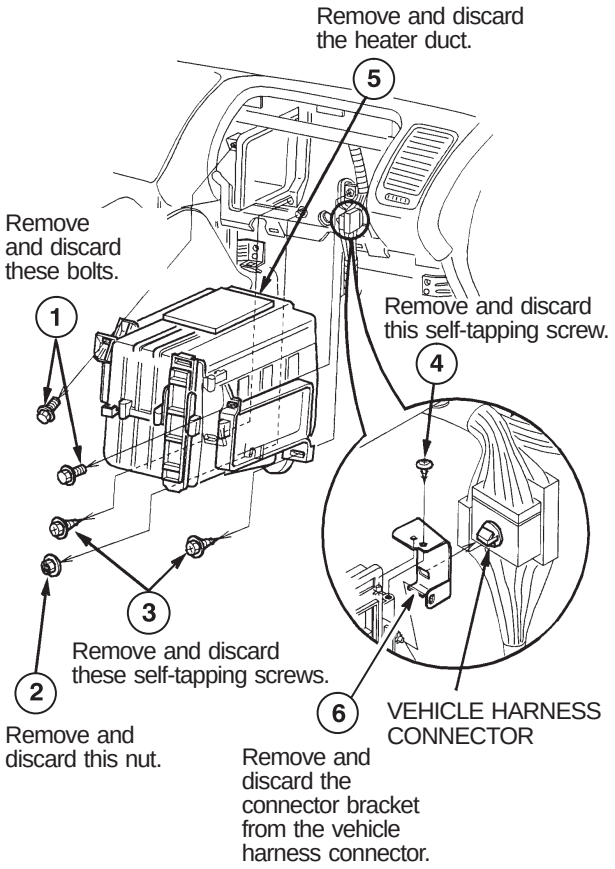
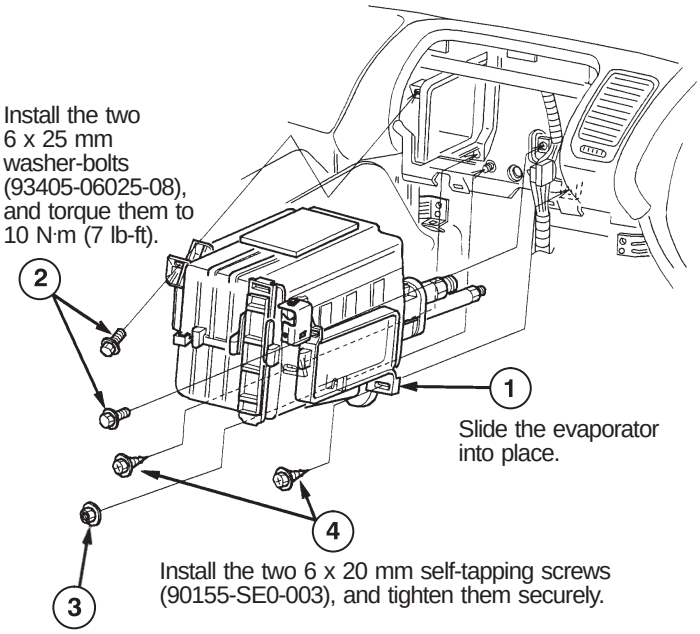
4. Remove the heater duct.



Get parts group A.

5. Install the evaporator.


Install the two 6 x 25 mm washer-bolts (93405-06025-08), and torque them to 10 N·m (7 lb-ft).
2
1
Slide the evaporator into place.
4
Install the two 6 x 20 mm self-tapping screws (90155-SE0-003), and tighten them securely.
3
Install the 6 mm washer-nut (90321-SV4-003), and torque it to 10 N·m (7 lb-ft).

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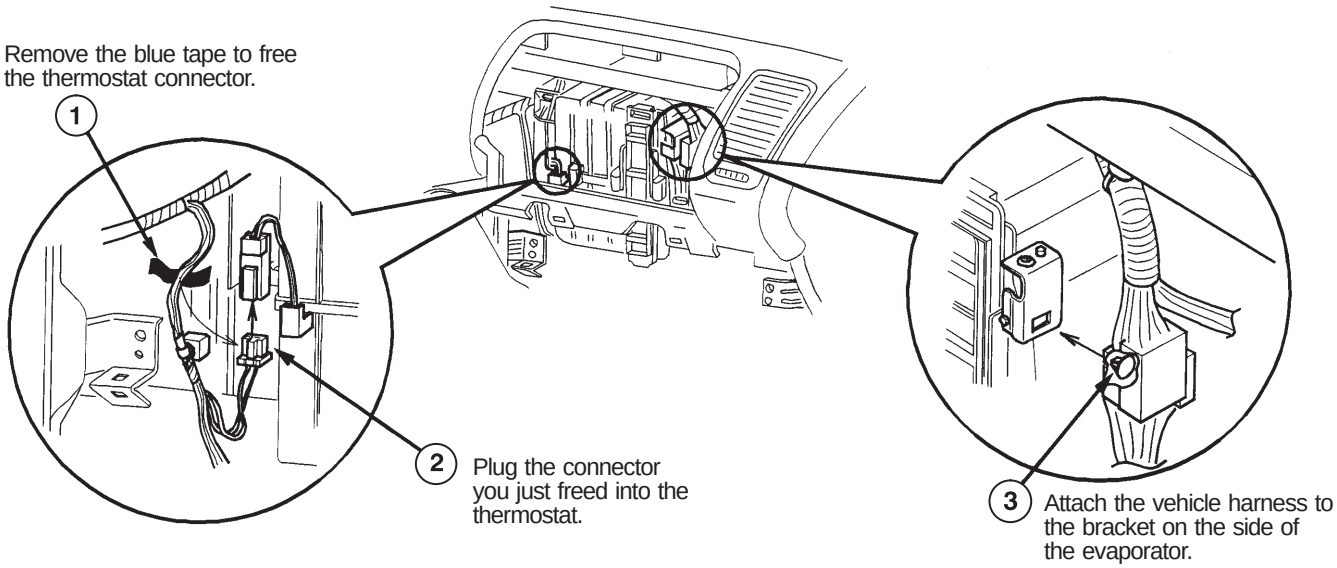
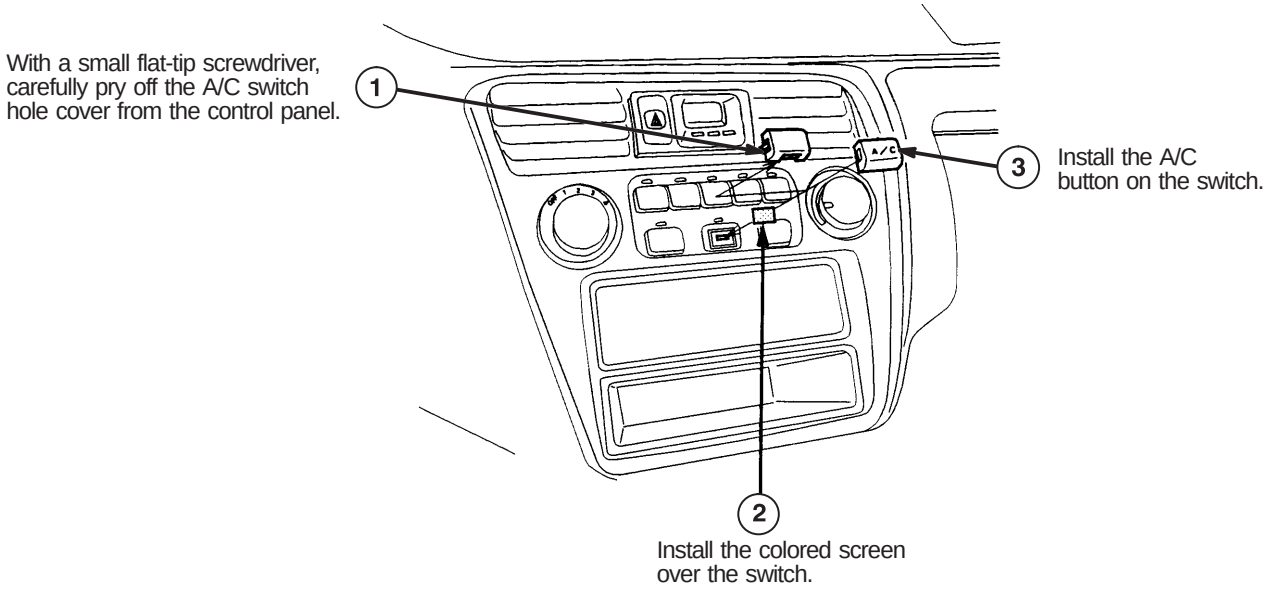
6. Connect the thermostat connector.


Remove the blue tape to free the thermostat connector.
1
2
Plug the connector you just freed into the thermostat.
3
Attach the vehicle harness to the bracket on the side of the evaporator.

7. Install the A/C switch button.


With a small flat-tip screwdriver, carefully pry off the A/C switch hole cover from the control panel.
1
A/C
3
Install the A/C button on the switch.
2
Install the colored screen over the switch.

8. Reinstall these parts:

- ☐ Glove box and connector
- ☐ Glove box frame
- ☐ Passenger's knee bolster [torque the mounting bolts to 9.0 N·m (6 lb-ft)]
- ☐ Dashboard lower cover
- ☐ Passenger's under-dash fuse/relay box cover
- ☐ Center console cover

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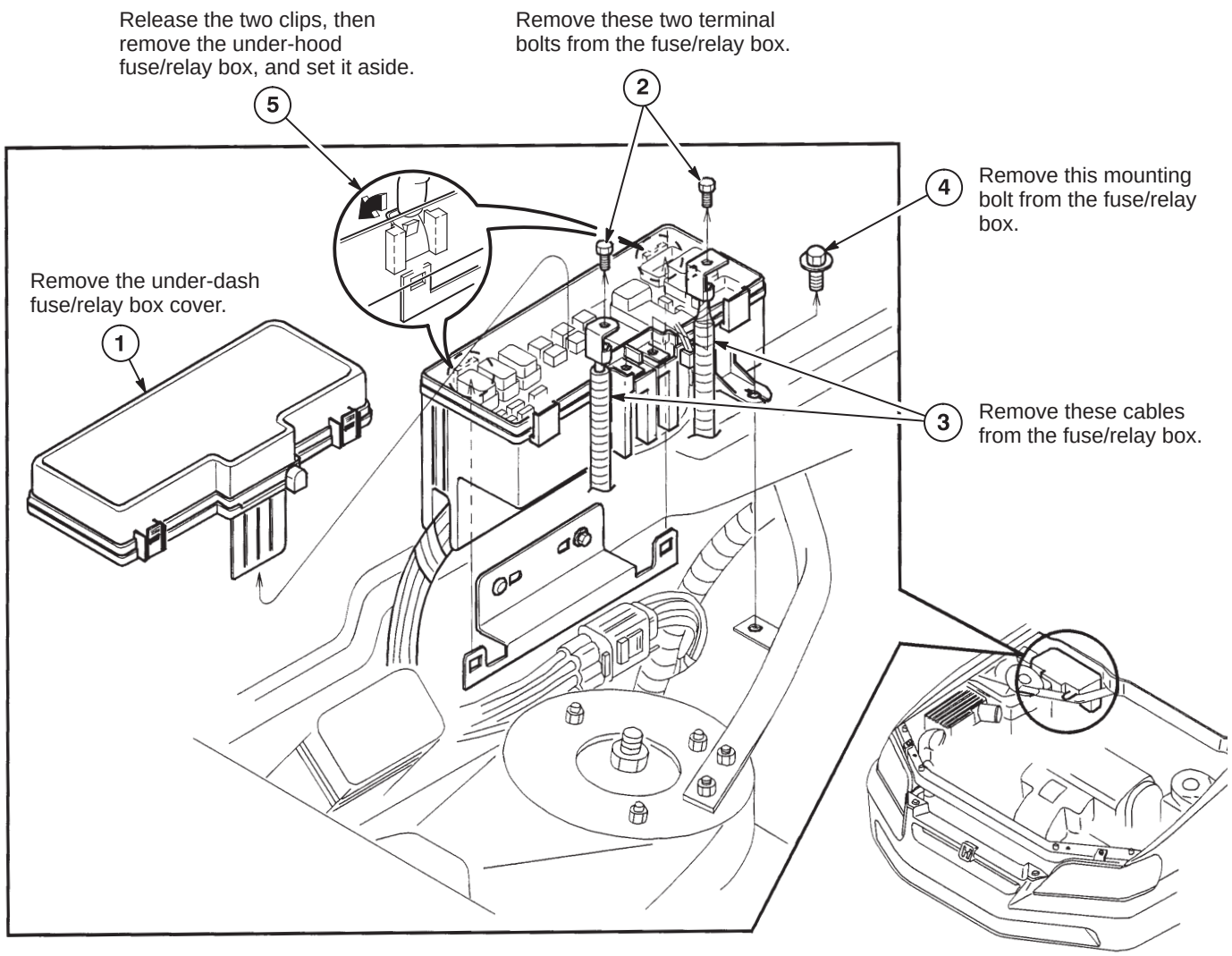
9. Prepare the engine compartment for installing the rest of the A/C kit.


Release the two clips, then remove the under-hood fuse/relay box, and set it aside.
5
Remove these two terminal bolts from the fuse/relay box.
2
4
Remove this mounting bolt from the fuse/relay box.
Remove the under-dash fuse/relay box cover.
1
3
Remove these cables from the fuse/relay box.

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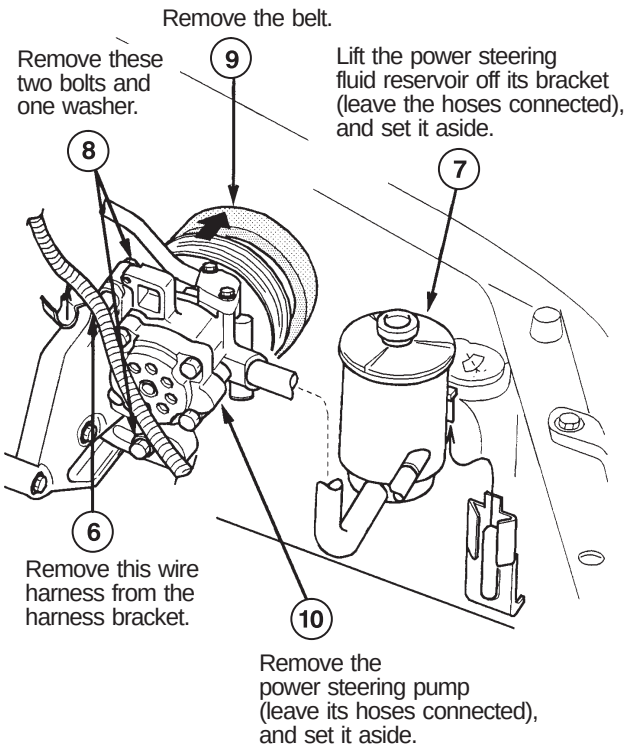
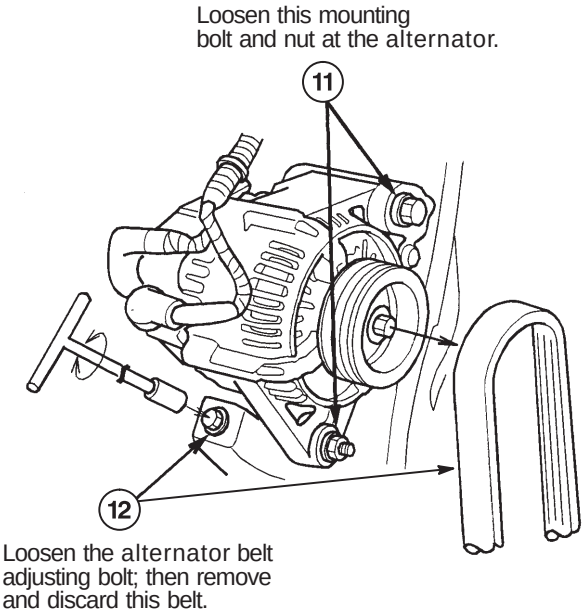
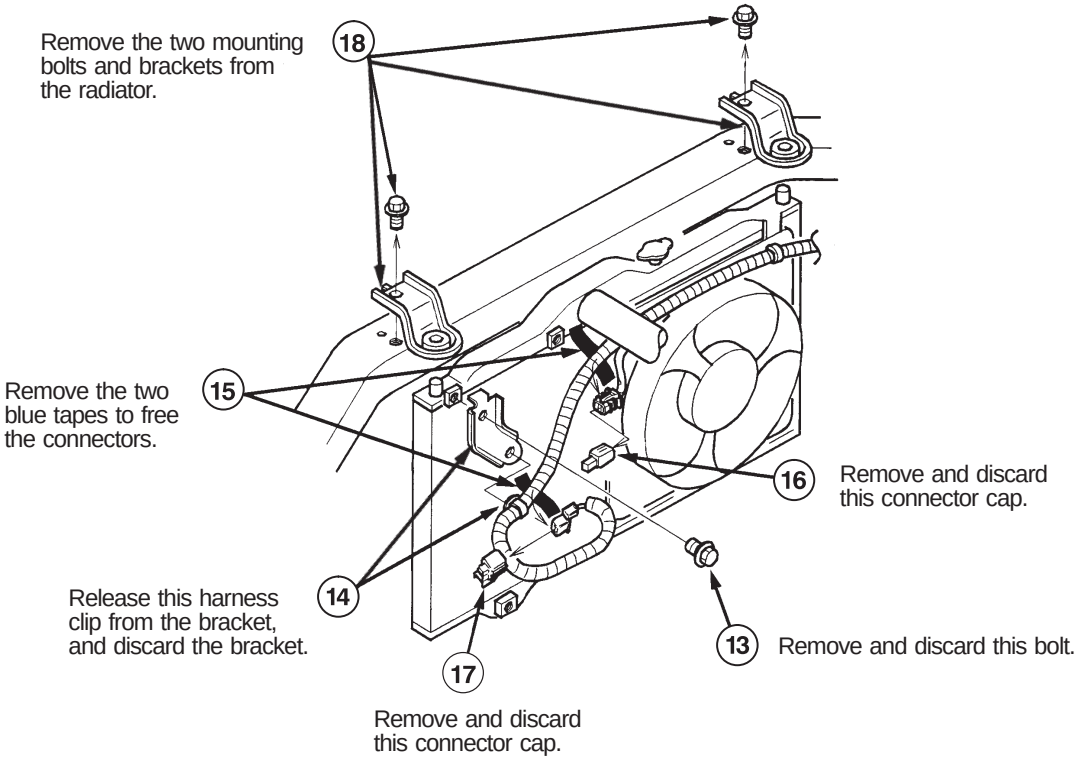

Remove the belt.
Remove these two bolts and one washer.
9
Lift the power steering fluid reservoir off its bracket (leave the hoses connected), and set it aside.
8
7
6
Remove this wire harness from the harness bracket.
10
Remove the power steering pump (leave its hoses connected), and set it aside.


Loosen this mounting bolt and nut at the alternator.
11
12
Loosen the alternator belt adjusting bolt; then remove and discard this belt.


Remove the two mounting bolts and brackets from the radiator.
18
Remove the two blue tapes to free the connectors.
15
16
Remove and discard this connector cap.
Release this harness clip from the bracket, and discard the bracket.
14
13
Remove and discard this bolt.
17
Remove and discard this connector cap.

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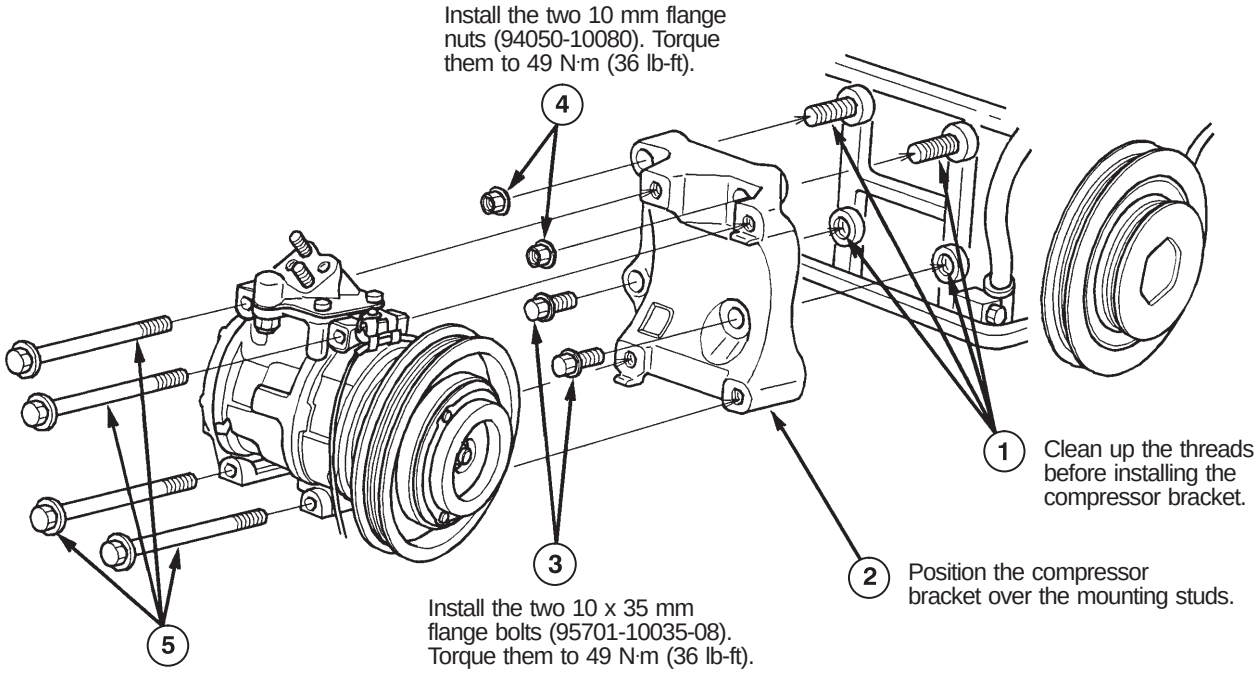
Get parts group B.

10. Install the compressor.


Install the two 10 mm flange nuts (94050-10080). Torque them to 49 N·m (36 lb-ft).
4
1
Clean up the threads before installing the compressor bracket.
2
Position the compressor bracket over the mounting studs.
3
Install the two 10 x 35 mm flange bolts (95701-10035-08). Torque them to 49 N·m (36 lb-ft).
5
Position the compressor on the bracket, and install the four 8 x 85 mm flange bolts (90023-P8A-A00). Torque them to 22 N·m (16 lb-ft).

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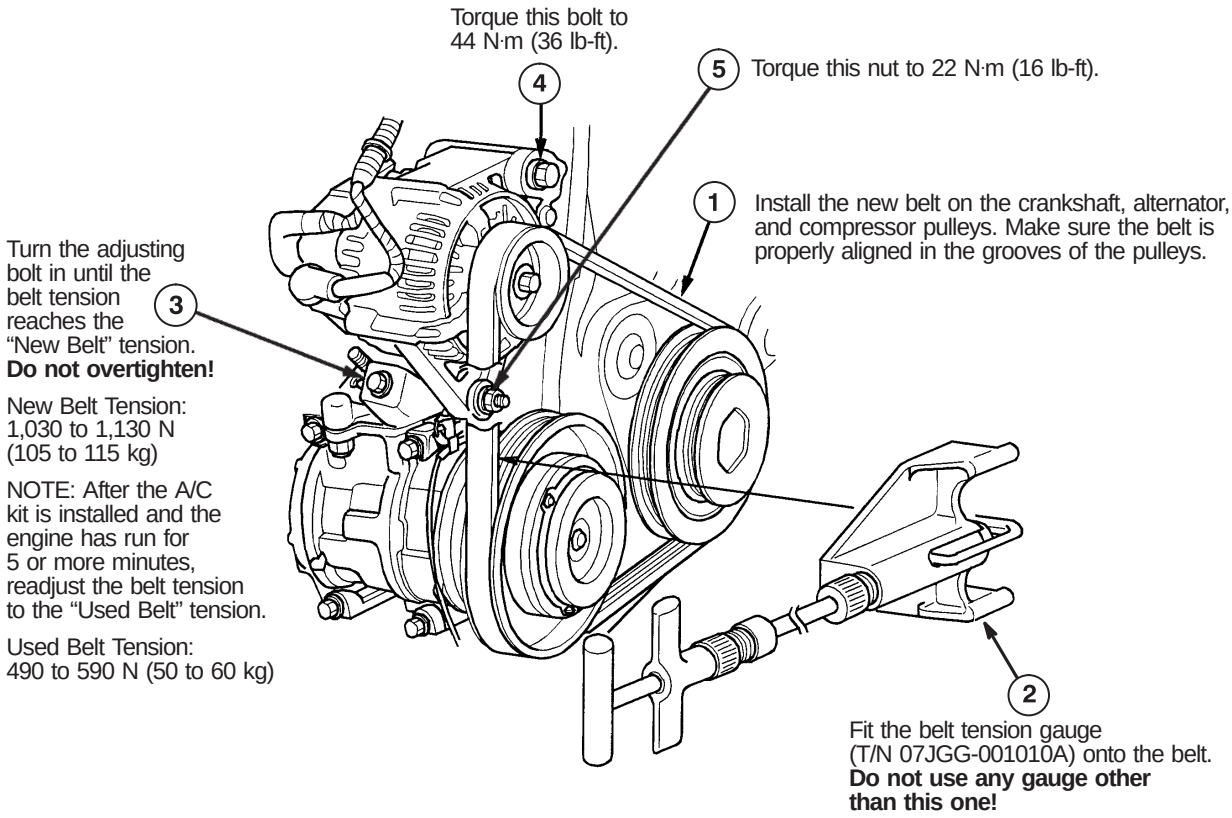
11. Adjust the compressor belt tension.


Torque this bolt to 44 N·m (36 lb-ft).
4
5
Torque this nut to 22 N·m (16 lb-ft).
1
Install the new belt on the crankshaft, alternator, and compressor pulleys. Make sure the belt is properly aligned in the grooves of the pulleys.
Turn the adjusting bolt in until the belt tension reaches the "New Belt" tension. **Do not overtighten!**
3
New Belt Tension: 1,030 to 1,130 N (105 to 115 kg)
NOTE: After the A/C kit is installed and the engine has run for 5 or more minutes, readjust the belt tension to the "Used Belt" tension.
Used Belt Tension: 490 to 590 N (50 to 60 kg)
2
Fit the belt tension gauge (T/N 07JGG-001010A) onto the belt. **Do not use any gauge other than this one!**

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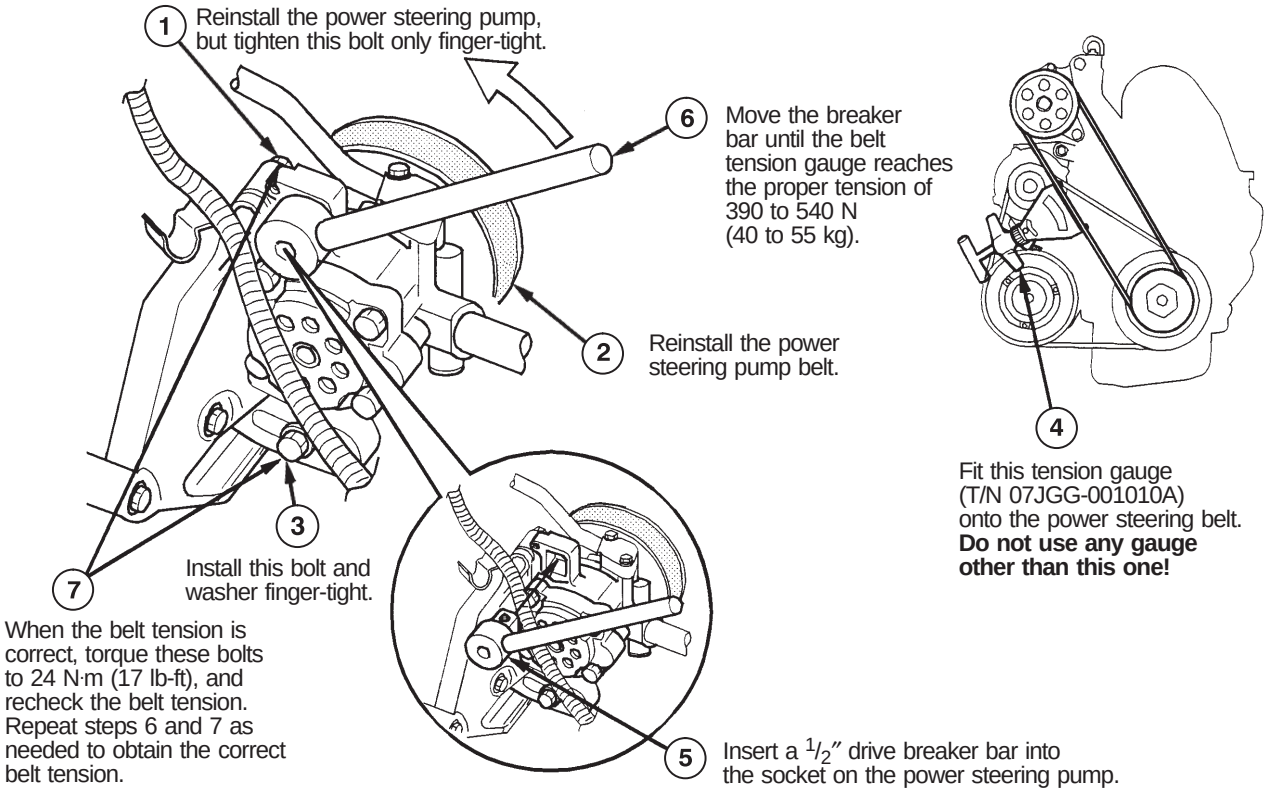
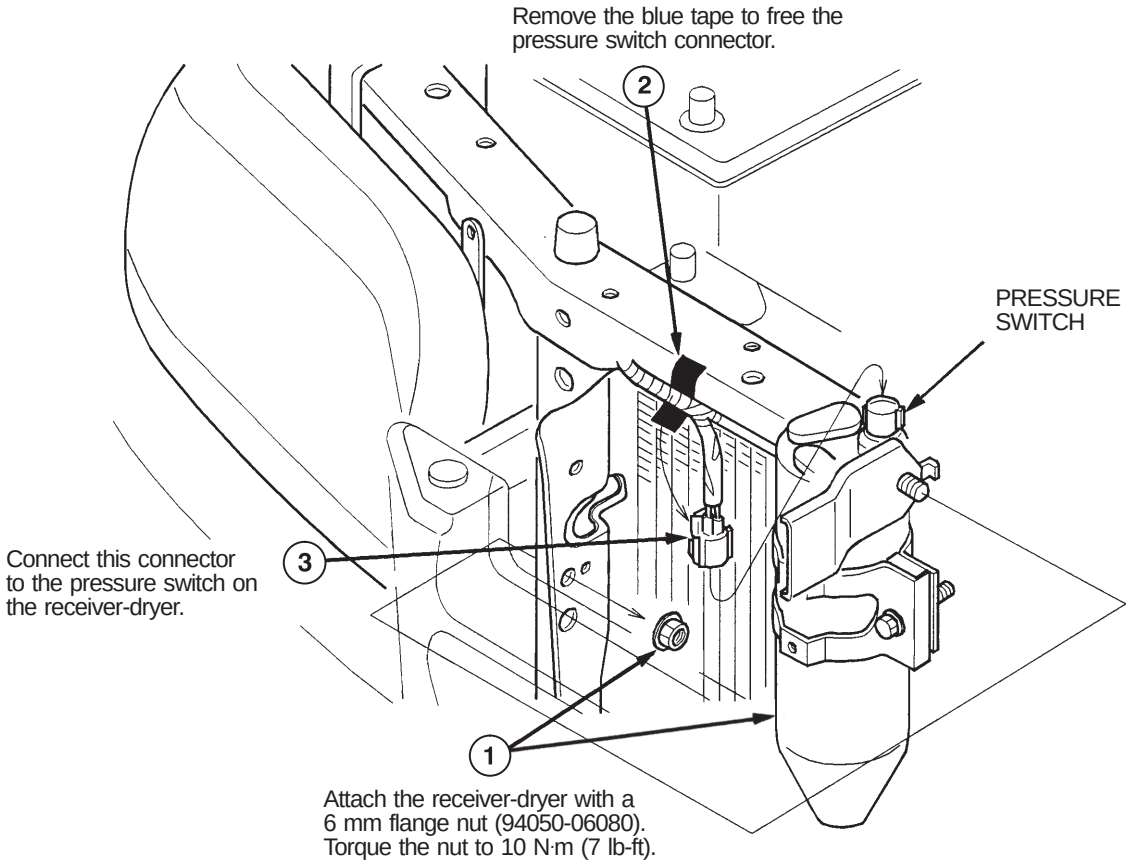
12. Reinstall the power steering pump.


1
Reinstall the power steering pump, but tighten this bolt only finger-tight.
6
Move the breaker bar until the belt tension gauge reaches the proper tension of 390 to 540 N (40 to 55 kg).
2
Reinstall the power steering pump belt.
4
Fit this tension gauge (T/N 07JGG-001010A) onto the power steering belt. **Do not use any gauge other than this one!**
3
Install this bolt and washer finger-tight.
7
When the belt tension is correct, torque these bolts to 24 N·m (17 lb-ft), and recheck the belt tension. Repeat steps 6 and 7 as needed to obtain the correct belt tension.
5
Insert a 1/2″ drive breaker bar into the socket on the power steering pump.

Get parts group C.

13. Install the receiver-dryer.


Remove the blue tape to free the pressure switch connector.
2
PRESSURE SWITCH
3
Connect this connector to the pressure switch on the receiver-dryer.
1
Attach the receiver-dryer with a 6 mm flange nut (94050-06080). Torque the nut to 10 N·m (7 lb-ft).

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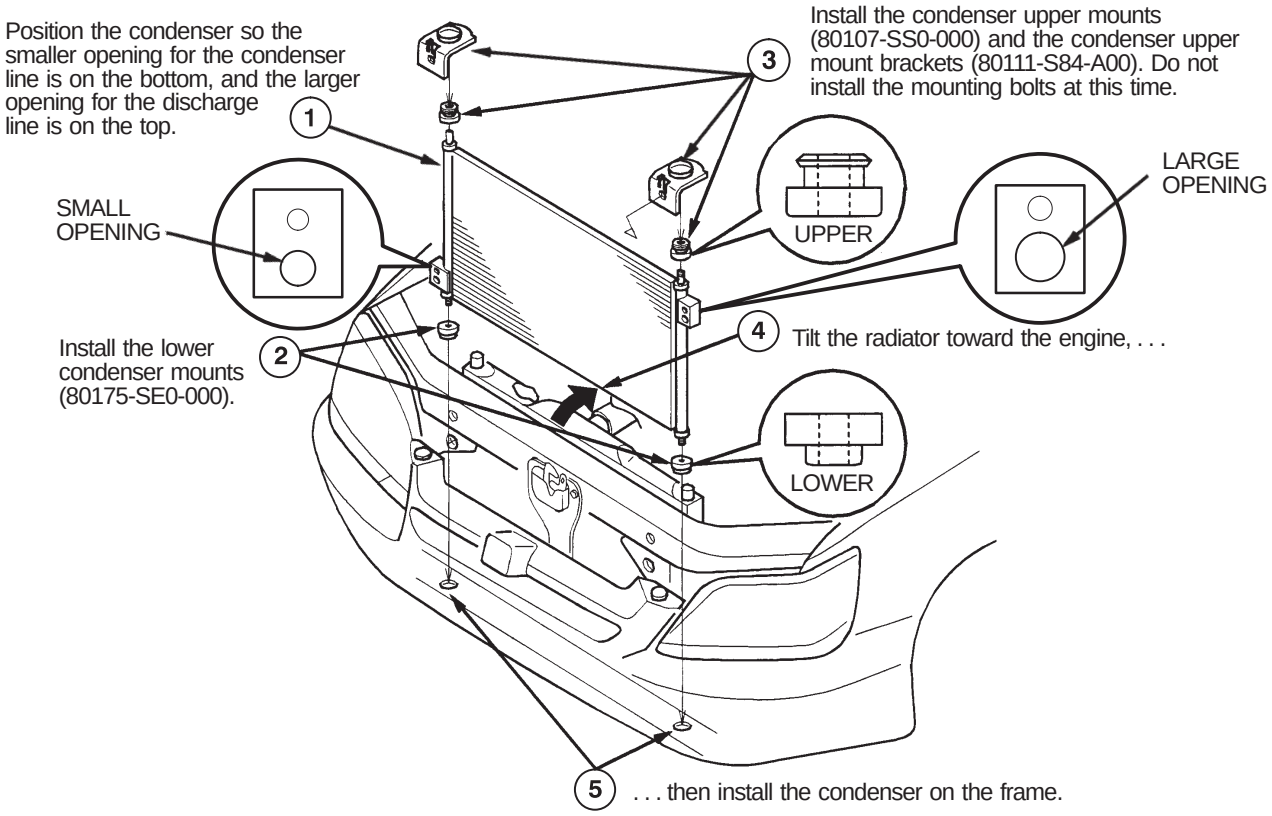
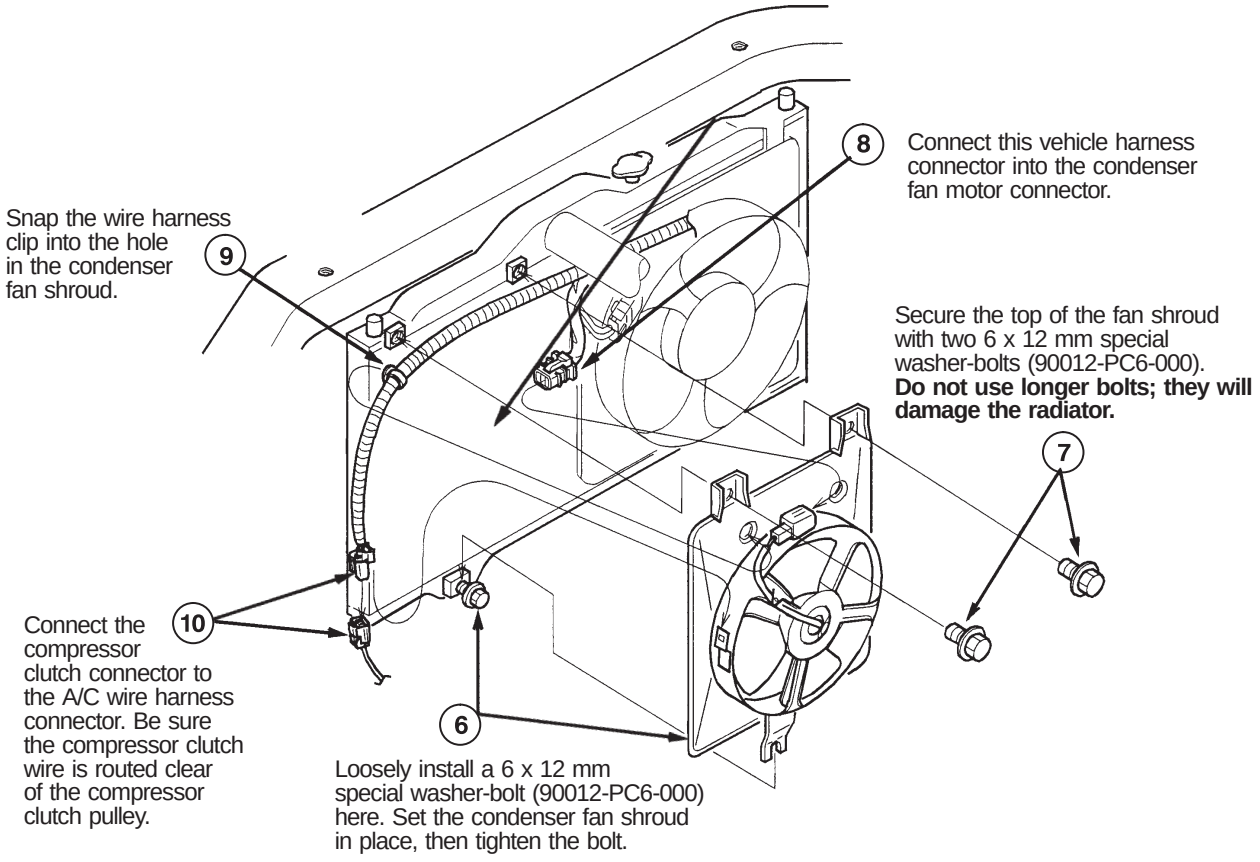
14. Install the condenser and the condenser fan.


Position the condenser so the smaller opening for the condenser line is on the bottom, and the larger opening for the discharge line is on the top.
1
Install the condenser upper mounts (80107-SS0-000) and the condenser upper mount brackets (80111-S84-A00). Do not install the mounting bolts at this time.
3
SMALL OPENING
UPPER
LARGE OPENING
Install the lower condenser mounts (80175-SE0-000).
2
4
Tilt the radiator toward the engine, . . .
LOWER
5
. . . then install the condenser on the frame.


8
Connect this vehicle harness connector into the condenser fan motor connector.
Snap the wire harness clip into the hole in the condenser fan shroud.
9
Secure the top of the fan shroud with two 6 x 12 mm special washer-bolts (90012-PC6-000). **Do not use longer bolts; they will damage the radiator.**
7
10
Connect the compressor clutch connector to the A/C wire harness connector. Be sure the compressor clutch wire is routed clear of the compressor clutch pulley.
6
Loosely install a 6 x 12 mm special washer-bolt (90012-PC6-000) here. Set the condenser fan shroud in place, then tighten the bolt.

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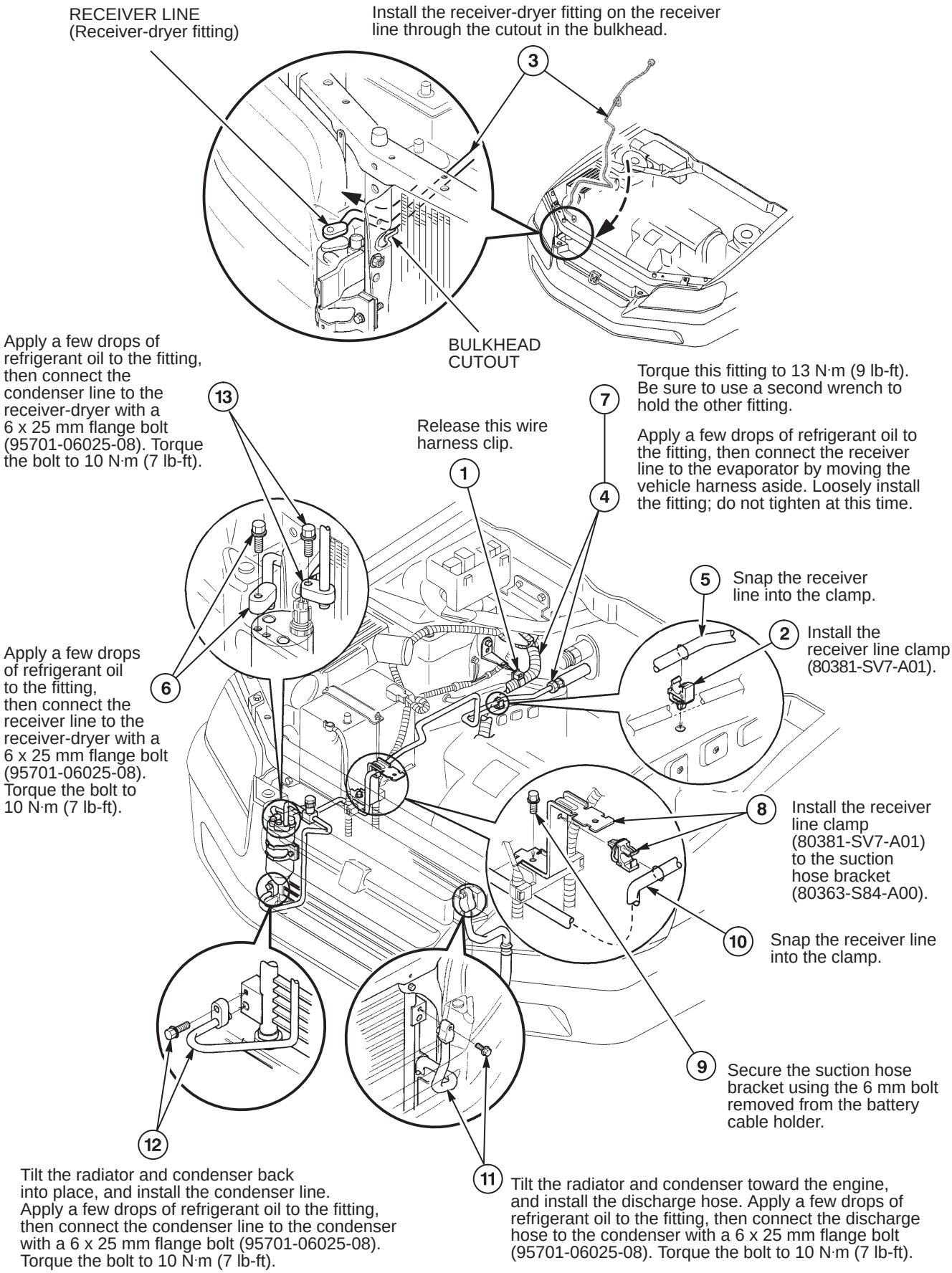
15. Install the receiver line, the discharge hose, and the condenser line.


RECEIVER LINE
(Receiver-dryer fitting)
Install the receiver-dryer fitting on the receiver line through the cutout in the bulkhead.
3
BULKHEAD
CUTOUT
Apply a few drops of refrigerant oil to the fitting, then connect the condenser line to the receiver-dryer with a 6 x 25 mm flange bolt (95701-06025-08). Torque the bolt to 10 N·m (7 lb-ft).
13
Release this wire harness clip.
1
Torque this fitting to 13 N·m (9 lb-ft). Be sure to use a second wrench to hold the other fitting.
7
Apply a few drops of refrigerant oil to the fitting, then connect the receiver line to the evaporator by moving the vehicle harness aside. Loosely install the fitting; do not tighten at this time.
4
5
Snap the receiver line into the clamp.
2
Install the receiver line clamp (80381-SV7-A01).
Apply a few drops of refrigerant oil to the fitting, then connect the receiver line to the receiver-dryer with a 6 x 25 mm flange bolt (95701-06025-08). Torque the bolt to 10 N·m (7 lb-ft).
6
8
Install the receiver line clamp (80381-SV7-A01) to the suction hose bracket (80363-S84-A00).
10
Snap the receiver line into the clamp.
9
Secure the suction hose bracket using the 6 mm bolt removed from the battery cable holder.
12
Tilt the radiator and condenser back into place, and install the condenser line. Apply a few drops of refrigerant oil to the fitting, then connect the condenser line to the condenser with a 6 x 25 mm flange bolt (95701-06025-08). Torque the bolt to 10 N·m (7 lb-ft).
11
Tilt the radiator and condenser toward the engine, and install the discharge hose. Apply a few drops of refrigerant oil to the fitting, then connect the discharge hose to the condenser with a 6 x 25 mm flange bolt (95701-06025-08). Torque the bolt to 10 N·m (7 lb-ft).

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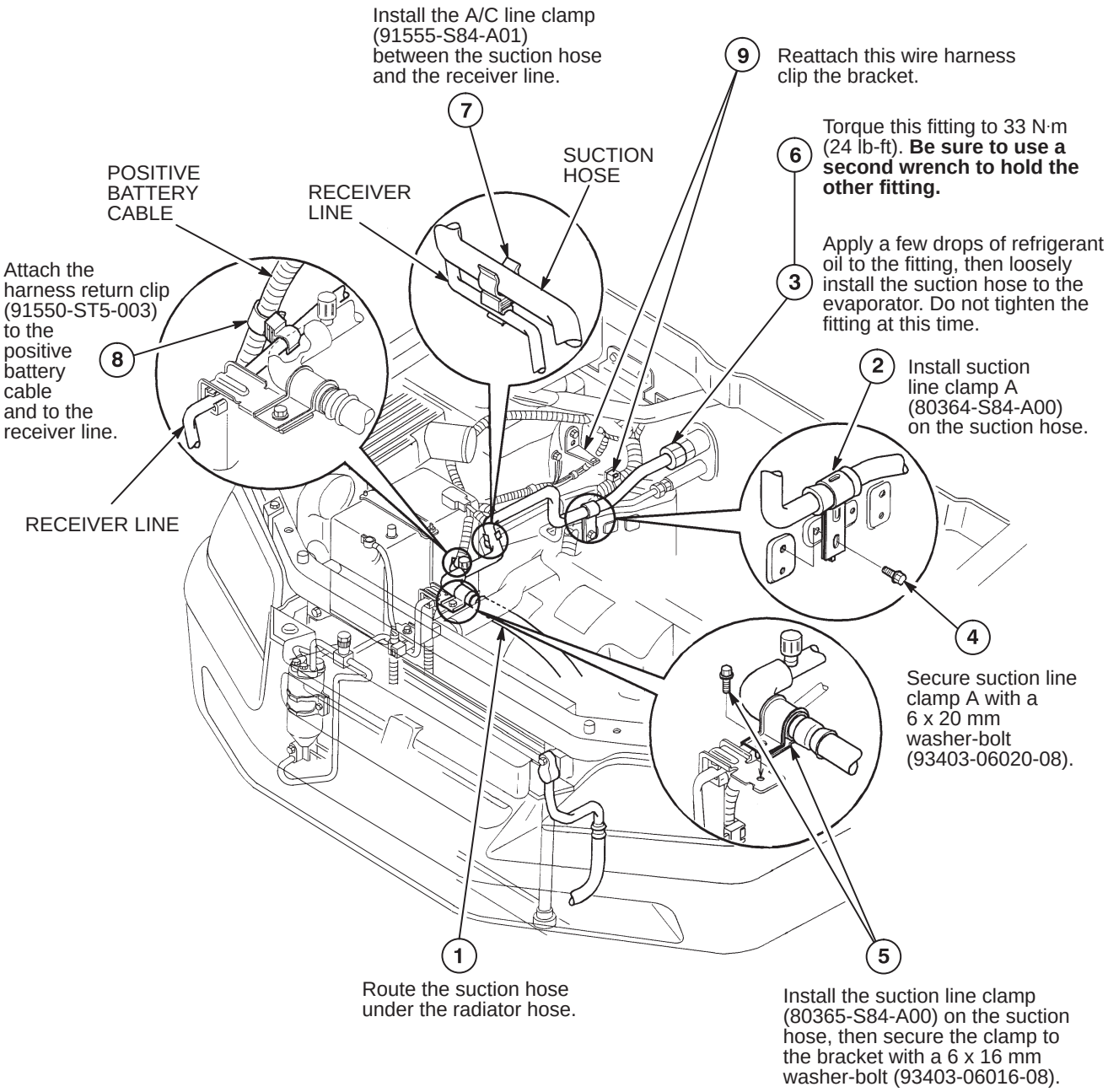
16. Install the suction hose.


Install the A/C line clamp (91555-S84-A01) between the suction hose and the receiver line.
7
9
Reattach this wire harness clip the bracket.
Torque this fitting to 33 N·m (24 lb-ft). **Be sure to use a second wrench to hold the other fitting.**
6
SUCTION HOSE
POSITIVE BATTERY CABLE
RECEIVER LINE
Apply a few drops of refrigerant oil to the fitting, then loosely install the suction hose to the evaporator. Do not tighten the fitting at this time.
3
Attach the harness return clip (91550-ST5-003) to the positive battery cable and to the receiver line.
8
2
Install suction line clamp A (80364-S84-A00) on the suction hose.
RECEIVER LINE
4
Secure suction line clamp A with a 6 x 20 mm washer-bolt (93403-06020-08).
1
5
Route the suction hose under the radiator hose.
Install the suction line clamp (80365-S84-A00) on the suction hose, then secure the clamp to the bracket with a 6 x 16 mm washer-bolt (93403-06016-08).

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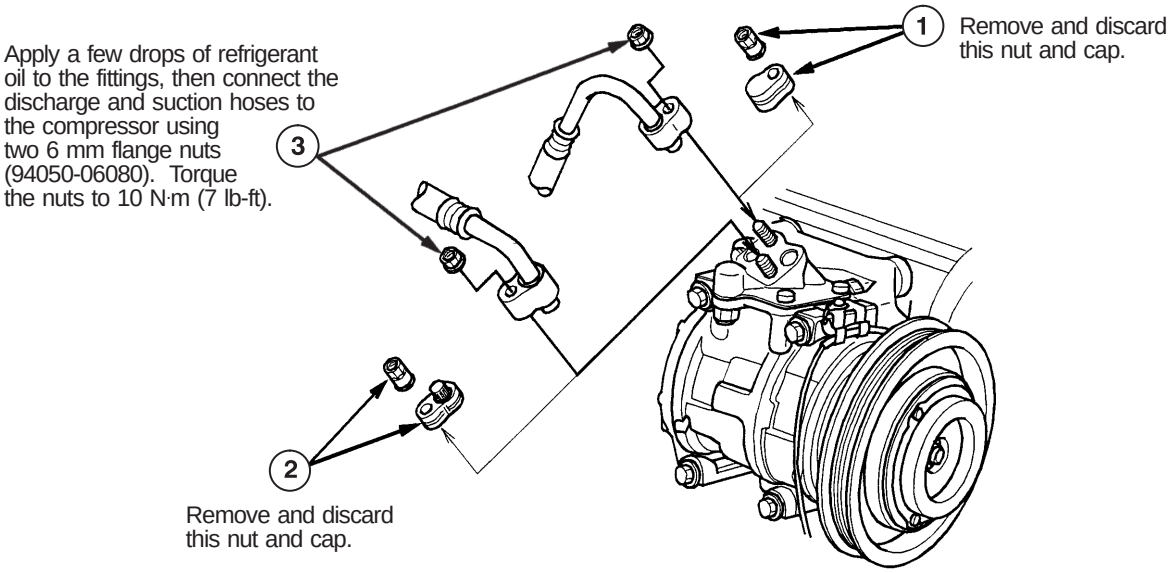
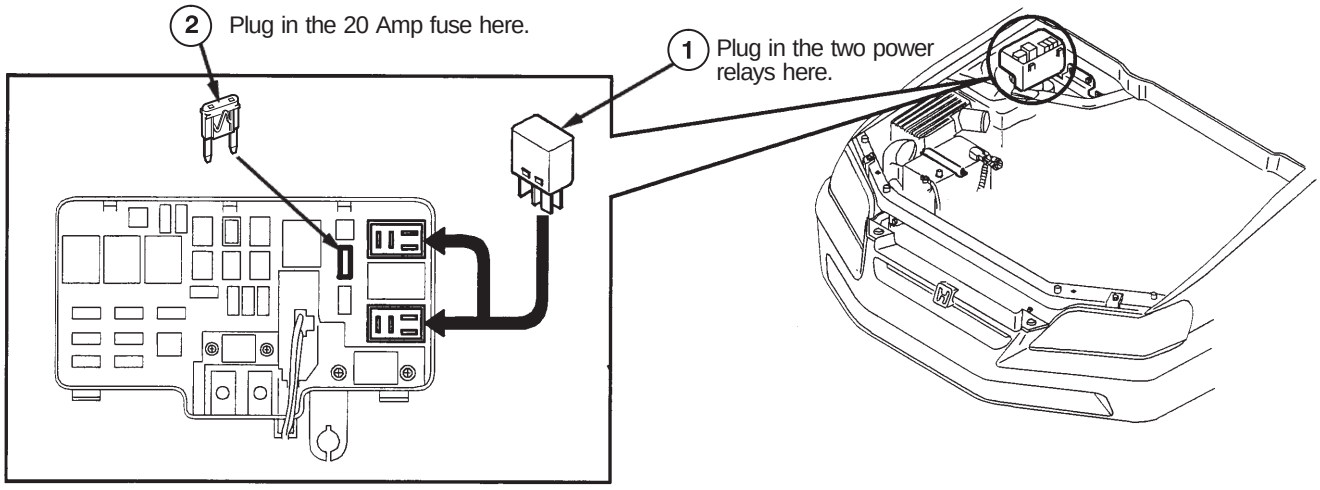
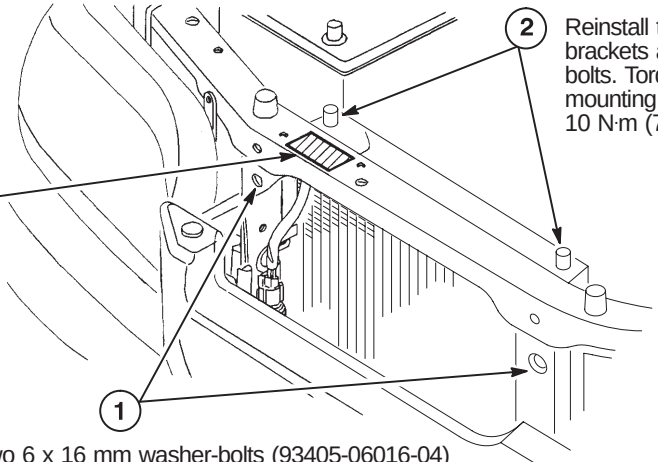
17. Install the suction hose and the discharge hose (compressor side).

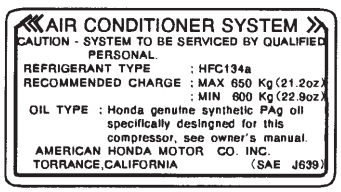

Apply a few drops of refrigerant oil to the fittings, then connect the discharge and suction hoses to the compressor using two 6 mm flange nuts (94050-06080). Torque the nuts to 10 N·m (7 lb-ft).
3
1
Remove and discard this nut and cap.
2
Remove and discard this nut and cap.

18. Install the power relays and the condenser fan fuse.



19. Install the condenser mounting bolts, the radiator mounts, and the A/C label.


2
Reinstall the radiator brackets and mounting bolts. Torque the mounting bolts to 10 N·m (7 lb-ft).
3
Attach this label at the location shown.
1
Install the two 6 x 16 mm washer-bolts (93405-06016-04) for the condenser upper mounts. Torque the bolts to 10 N·m (7 lb-ft).


AIR CONDITIONER SYSTEM
CAUTION - SYSTEM TO BE SERVICED BY QUALIFIED PERSONAL.
REFRIGERANT TYPE : HFC134a
RECOMMENDED CHARGE : MAX 650 Kg (21.2oz)
: MIN 600 Kg (22.9oz)
OIL TYPE : Honda genuine synthetic PAg oil specifically desingned for this compressor, see owner's manual.
AMERICAN HONDA MOTOR CO. INC.
TORRANCE,CALIFORNIA (SAE J639)

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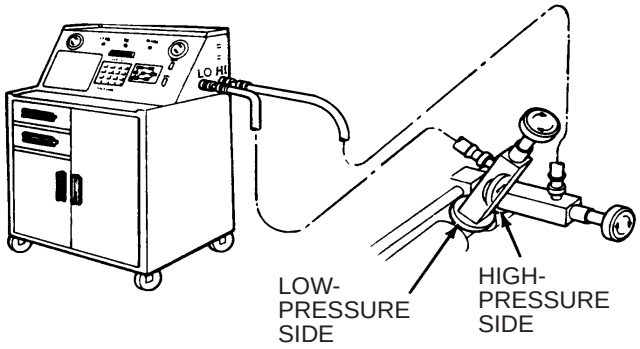
20. Reinstall the remaining parts.

- ☐ Radiator reservoir
- ☐ Power steering reservoir
- ☐ Fuse/relay box mounting bolt, cables and lid
- ☐ Air flow tube
- ☐ Battery cable

21. Evacuate the system.

HFC-134a and compressor oil used in this A/C system are highly moisture-absorbent. After installing the system, be sure to evacuate it for at least 15 minutes.

NOTE: If the system is open, the desiccant in the receiver tank will become saturated with moisture, requiring longer evacuation time.



22. Charge the system.

- This system requires only the amount of HFC-134a refrigerant shown below. If you overcharge the system, the engine and the A/C will malfunction. **Do not overcharge!**

600 to 650 grams
.60 to .65 kilograms
1.3 to 1.4 pounds
21.2 to 22.9 ounces

- Do not add oil to the compressor; a new compressor already contains enough oil for the entire A/C system. If you are replacing compressor oil that has leaked out of the system, use only **Denso ND-8 oil**.
- Using the wrong oil, or mixing different types of oil, would result in abnormal compressor noise or seizure, or shortened compressor service life. These conditions are **not covered by warranty policy.**

23. Check for leaks.

When testing for leaks, follow these guidelines:

- Be sure to use a tester designed exclusively for A/C systems that use HFC-134a.
- Because HFC-134a is heavier than air, always check 360° around all fittings.
- To avoid false readings, do not use a tester designed to detect Freon (CFC-12).
- If you lose or damage an O-ring during A/C installation, make sure you order the correct replacement as listed here:

PART NAME	PART NUMBER	APPLICATION
O-ring, 8 mm	80873-ST7-000	Condenser Line Receiver Lines
O-ring, 5/8″	80871-ST7-000	Suction Hose
O-ring, 1/2″	80872-ST7-000	Discharge Hose

24. Performance test the A/C system.

Refer to Service Bulletin 96-012 for the A/C performance test procedures.

25. Readjust the compressor belt tension.

Readjust the compressor belt tension to the *"Used Belt"* specification:

490 to 590 N (50 to 60 Kg)

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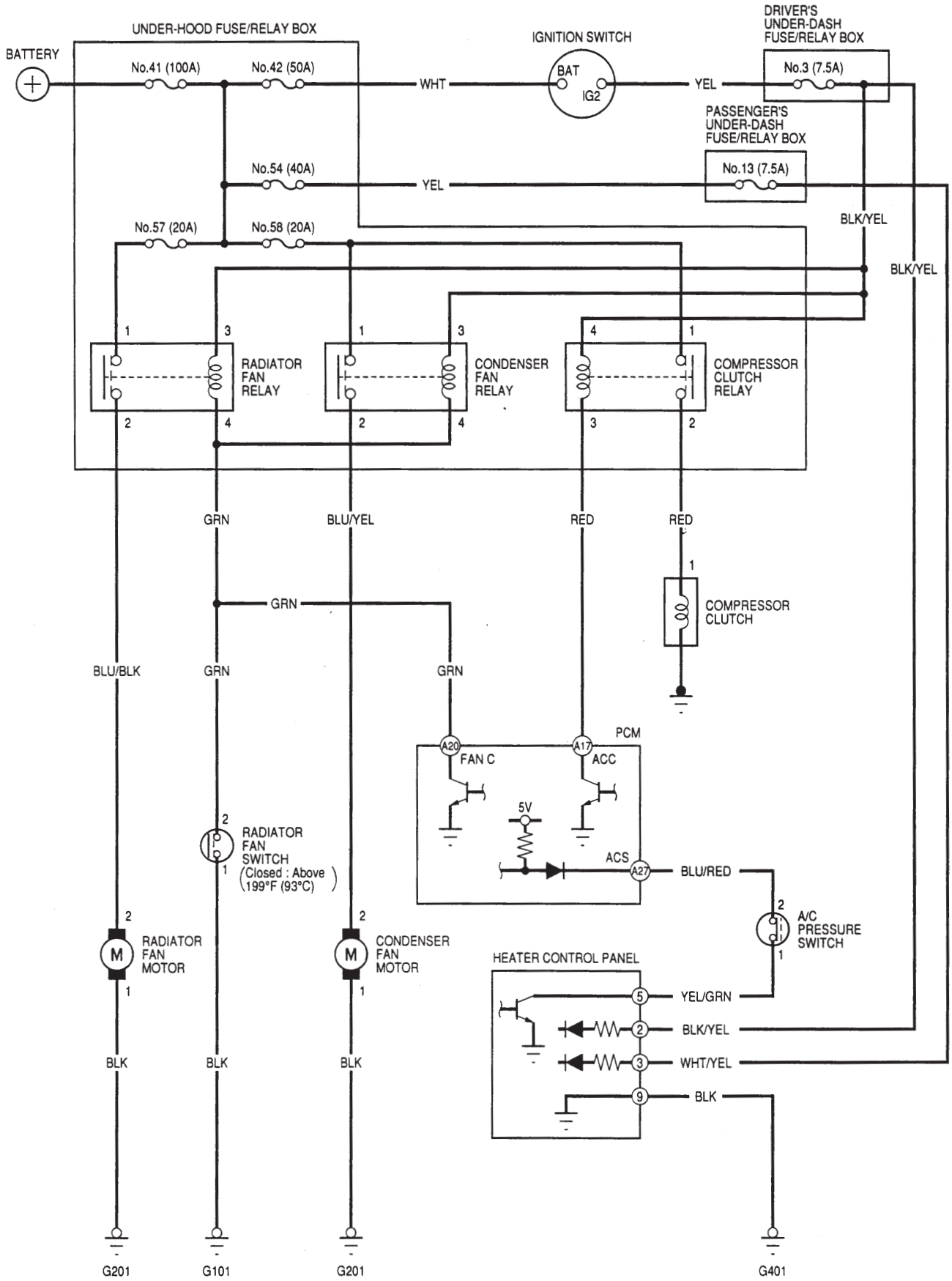
Circuit Diagram



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